

**Amendments to the Claims:**

A complete listing of all claims is presented below.

5           1-83. (Canceled).

84. (Currently amended) A tissue dissector, comprising:

an elongated tubular body having a proximal end and a distal end and enclosing  
endoscopic imaging fibers; and

10           a dissecting, viewing and dilating unit removably mounted on the tubular body  
distal end, including:

15           a transparent distal tip having tapered outer walls converging to a blunt end  
for dissecting tissue, the tip being disposed on a distal end of the dilating unit to  
dissect tissue and facilitate passage of the tubular body through tissue under  
endoscopic visualization; and

20           a non-inflatable dilating element having an exterior contour that gradually  
increases in size in the proximal direction from a distal edge thereof until a  
maximum cross-sectional dimension greater than the cross-sectional dimension of  
the distal end of the tubular body, the dilating element then decreasing in size to a  
proximal edge, the gradual size increase and decrease therefore facilitating  
atraumatic expansion of tissue following dissection by the tapered distal tip.

25           85. (Previously presented) The tissue dissector of claim 84, further including a length  
of screw threads positioned on an outer surface of the tubular body near the distal end thereof,  
and wherein the dilating unit further comprises a threaded bore hole for engaging the length of  
screw threads and mounting the dilating unit on the distal end of the tubular body.

86. (Withdrawn) The tissue dissector of claim 84, further including at least one resilient member positioned on an outer surface of the tubular body near the distal end thereof, and wherein the dilating unit further comprises a mating recess for engaging the resilient member and mounting the dilating unit on the distal end of the tubular body in a snap-fit engagement.

87. (Withdrawn) The tissue dissector of claim 84, further including a lever-actuated locking device formed on the tubular body and the dilating element including a mating pin and recess for mounting the dilating element on the distal end of the tubular body and enable easy removal.

88. (Previously presented) The tissue dissector of claim 84, wherein the exterior contour of the dilating element is an oval-shape.

89. (Previously presented) The tissue dissector of claim 84, wherein the exterior contour of the dilating element is an olive-shape.

90. (Previously presented) The tissue dissector of claim 84, wherein the exterior contour of the dilating element includes peripheral faceted surfaces located distally with respect to the point of maximum cross-sectional dimension.

91. (Previously presented) The tissue dissector of claim 90, wherein the peripheral faceted surfaces define ridges that facilitate dilation of tissue.

92. (Previously presented) The tissue dissector of claim 84, wherein the exterior contour of the dilating element includes axially-aligned ribs and flutes.

93. (Previously presented) The tissue dissector of claim 84, wherein the cross-sectional dimension of the dilating element is at least two times larger than the cross-section sectional dimension of the distal end of the tubular body.

5 94. (Previously presented) The tissue dissector of claim 93, wherein the cross-sectional dimension of the dilating element is between 15-30 mm.

95. (Previously presented) The tissue dissector of claim 84, wherein the dilating element is compressible.

10 96. (Previously presented) The tissue dissector of claim 84, wherein the tubular body is an endoscope.

15 97. (Previously presented) The tissue dissector of claim 84, wherein the tubular body is an endoscope body, the dissector further including a fitting near the proximal end adapted to couple to a viewing camera.

20 98. (Previously presented) The tissue dissector of claim 84, wherein the tubular body is a cannula having a lumen, the endoscopic imaging fibers being provided within an endoscope that fits within the cannula lumen and includes a fitting near its proximal end adapted to couple to a viewing camera.

25 99. (Currently amended) A tissue dissector, comprising:  
an elongated tubular body having a proximal end and a distal end and enclosing endoscopic imaging fibers;

a transparent distal tip having tapered outer walls converging to a blunt end for dissecting tissue, the tip being disposed on the distal end of the tubular body to dissect

tissue and facilitate passage of the tubular body through tissue under endoscopic visualization; and

5 a non-inflatable dilating element of fixed outer dimension removably mounted on the tubular body proximal to the distal tip, the dilating element having an exterior contour that gradually increases in size in the proximal direction from a distal edge thereof until a maximum cross-sectional dimension greater than the cross-sectional dimension of the distal end of the tubular body, the dilating element then gradually decreasing in size to a proximal edge, the gradual size increase and decrease therefore facilitating atraumatic expansion of tissue following dissection by the tapered distal tip.

10 100. (Previously presented) The tissue dissector of claim 99, further including a length of screw threads positioned on an outer surface of the tubular body proximal to the distal tip, and wherein the dilating element further comprises a threaded bore hole for engaging the length of screw threads and removably positioning the dilating element on the tubular body.

15 101. (Withdrawn) The tissue dissector of claim 99, further including at least one resilient member positioned on an outer surface of the tubular body near the distal end thereof, and wherein the dilating element further comprises a mating recess for engaging the resilient member and removably positioning the dilating element on the tubular body in a snap-fit  
20 engagement.

25 102. (Withdrawn) The tissue dissector of claim 99, further including a lever-actuated locking device formed on the tubular body and the dilating unit including a mating pin and recess for mounting the dilating unit on the distal end of the tubular body and enable easy removal.

103. (Previously presented) The tissue dissector of claim 99, wherein the distal tip and dilating element are formed as a single unit removably mounted on the tubular body.

104. (Previously presented) The tissue dissector of claim 99, wherein the distal tip is removably mounted on a distal end of the dilating element.

5           105. (Previously presented) The tissue dissector of claim 99, wherein the exterior contour of the dilating element is an oval-shape.

106. (Previously presented) The tissue dissector of claim 99, wherein the exterior contour of the dilating element is an olive-shape.

10           107. (Previously presented) The tissue dissector of claim 99, wherein the exterior contour of the dilating element includes peripheral faceted surfaces located distally with respect to the point of maximum cross-sectional dimension.

15           108. (Previously presented) The tissue dissector of claim 107, wherein the peripheral faceted surfaces define ridges that facilitate dilation of tissue.

109. (Previously presented) The tissue dissector of claim 99, wherein the exterior contour of the dilating element includes axially-aligned ribs and flutes.

20           110. (Previously presented) The tissue dissector of claim 99, wherein the cross-sectional dimension of the dilating element is at least two times larger than the cross-section sectional dimension of the distal end of the tubular body.

25           111. (Previously presented) The tissue dissector of claim 110, wherein the cross-sectional dimension of the dilating element is between 15-30 mm.

Serial No.: 10/054,477  
Docket No.: R0052CIP  
Amendment Dated February 3, 2006  
Responsive to the Office Action dated October 5, 2005

112. (Previously presented) The tissue dissector of claim 99, wherein the dilating element is compressible.

5 113. (Previously presented) The tissue dissector of claim 99, wherein the tubular body is an endoscope.

10 114. (Previously presented) The tissue dissector of claim 99, wherein the tubular body comprises an endoscope body, the dissector further including a fitting near the proximal end adapted to couple to a viewing camera.

15 115. (Previously presented) The tissue dissector of claim 99, wherein the tubular body comprises a cannula having a lumen, the endoscopic imaging fibers being provided within an endoscope that fits within the cannula lumen and includes a fitting near its proximal end adapted to couple to a viewing camera.

116. (New) The tissue dissector of claim 99, wherein the dilating element is rigid.

117. (New) The tissue dissector of claim 99, wherein the dilating element is solid.

20 118. (New) The tissue dissector of claim 84, wherein the dilating element is rigid.

119. (New) The tissue dissector of claim 84, wherein the dilating element is solid.

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